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AGRICULTURAL MACHINE BUILDING IN 1949

/Numbers in parentheses refer to issue number of periodical./

A survey of the activity of the agricultural machine-building industry shows an intense effort on the part of Soviet scientists, engineers, designers and plant administrators to meet the government's program for the mechanization of agricultural processes.

Specifically, the problems posed before the industry for 1949 were: (a) implementation of the three-year program of the Council of Ministers USSR and TsK VKP(b) for raising the level of live-stock production (6); (b) mechanization of tree planting in connection with the state forestation program for field conservation (3); (c) mechanization of cotton production (10); (d) improvement and extension of the production of harvesters and cultivators of all types (9).

The stock-raising program called for complete mechanization of grass harvesting, silo storage, sowing and harvesting of root crops, and milk production. To achieve this, the agricultural machine-building industry was charged with designing 19 new types of machines, which were to go into serial production in 1950. These include roller mowing machines, tractor-drawn lateral rakes, pickup and binding machines, baling and loading machines, hay stackers, silo combines, towerless electric water-pump works, fodder mixers, pasteurizers, etc. (6).

Fifteen new types of machines for field-conservation forestation are slated to go into production (7).

For design and construction of new models, ten special design bureaus (SKB) were organized and attached to large plants. The SKB at the Rostsel'mash, Gomsel'mash, and "Krasnaya Zvezda" plants have been particularly successful (3).

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The following types of machinery reportedly have gone into serial production:

1. Plows

P-35 five-section, tractor-drawn, produced on large scale (1)

P3-30 three-section plow with foreplow and cultivator; these can plow to a depth of 27 cm (1)

PKB-56 tractor-drawn, manufactured by the Agricultural Machine-Building Plant imeni Oktyabrskaya Revolutsia (3)

P-3-30P tractor-drawn three-section plow with foreplow, designed by VISKhOM (All-Union Science and Research Institute of Agricultural Machine Building), based on earlier P-4-30U plow (6)

PR-28 horse-drawn frame plow, designed by VISKhOM and produced by the Stalino Agricultural Plant; this plow compares favorably with mass-produced PP-28 horse-drawn plow, put out by Plant imeni October Revolution; it is easier to maneuver and to service (9).

2. Rakes

KG-1 rakes, produced on large scale at Lyubertsy Plant imeni Ukhtomskiy (4)

GPT rake (4)

3. Harrows

ShB-2.5 loop harrow (3)

4. Seeders

SZT-47 tractor-drawn seeders for simultaneous sowing of grass and grain (2)

2SK-6 seeder for simultaneous sowing of grain or beets and deposit of fertilizer (1)

SK-10 horse-drawn seeder (1)

SK-24 seeder 24-row combine, since beginning of 1949 (1)

SKM-2 new type potato seeder, designed by A. A. Karshintsev (5)

5. Cultivators

KUTS-4.2 universal cultivator, now produced on large scale (1)

KP-30 tractor-drawn cultivator, for working fallow fields, produced at "Krasnyy Aksay" Plant (1)

6. Harvesters

Stalinets-1 low-cutting combine, with following attachments: high-duty thresher, device for picking up straw and chaff; LD stubble clearer with 4.5 track and STDB harrow. Stalinets-6 in production at Zaporozhskiy "Kommunar" Plant since December 1948 (1); there are now tens of thousands of these machines in operation (9).

Harvester (Contd)

SPG-1 beet-harvesting combine, designed by M. G. Sirachenko, V. D. Pavlov, and S. A. Gerasimov (3); produced by Dnepropetrovsk Plant imeni Voroshilov (5)

SKL-3 beet-harvesting combine (3)

SK-2 beet-harvesting combine (3)

S-4 self-propelled combine (5); built in ever increasing quantities and destined to become basic machine in harvesting of grain crops (7).

7. Threshers

MS-600 thresher, designed and produced by the Serp i Molot Plant; compares favorably with the mass-produced MK-1100 thresher (9).

8. Cotton pickers

SKhM-40 vertical spindle cotton picker; machine results from extensive experimentation and was designed by the Special Design Bureau of the Ministry of Agricultural Machine Building. It has gone into serial production at the Tashsel'mash Plant imeni M. S. Voroshilov (10). It is also slated for production at the Gomsel'mash Plant (7).

9. Grain cleaners

OS-30 grain cleaner for separating grain from weed seeds (1)

OSG-0.2 grain cleaner (1)

10. Grain dryers

VISHKhov SZP-1.25 mobile dryer (9)

"Kuzbass" ZSP-1 dryer (9)

VIME dryer (9)

11. Silo Combines

An experimental model of a silo combine for cutting corn and sunflower stalks was turned over to the SKB of the Gomsel'mash plant for improvement; the latter was to produce a new model by July 1949. 1,000 such machines are to be produced in 1950 (6).

12. Pickup and binding machines

A motorless hay-pickup and pressing machine was designed by the VISKhOM and turned over to the Lyubertsy Plant imeni Uknomskiy for serial production. 1,500 such machines are scheduled for output in 1950 (6).

13. Haymowers

"Novyy Ideal" haymowers put out in hundreds of thousands by the Lyubertsy, Pervomaysk, and other plants.

K-6 wide-track haymower; first several thousand put out in 1948.

Haymowers (Contd)

KN-2.1 and K-2.1 high-duty, self-propelled trailer haymowers (Soviet designed) have recently gone into production; designed for work in the steppes (4).

14. Milking machines

A three-cycle milking machine was designed and produced at the Plant imeni Maslennikov (5).

15. Forestation machine

SL-4 four-wheel tree-planting machine, produced at the "Krasnaya Zvezda" Plant (8).

SOT tree and orchard tractor, with following attachable machines: PN-25 one-section plow; BDM disc harrow; KM cultivator; PRM and SCM vegetable seeder. Tractor and machines were designed by VISKhOM; engine, by SKB at Plant imeni Dzerzhinskiy (6).

PCh-2 tree-planting machine; seven such machines coupled to a C-60 tractor work as a combine. Machines produced at two plants of Ministry of Agricultural Machine Building; one of them is the Vysokogorskiy Agricultural Machine-Building Plant (2).

16. Miscellaneous

OKS tractor-drawn dusting and spraying machine for forest, orchard, and park plants, produced at the L'vovsel'mash Plant (9).

Agricultural Machine-Building Plants Currently in Operation

Taganrog Plant imeni Stalin, Ryazan'sel'mash, Kirov Agricultural Machine-Building Plant (2)

Vysokogorskiy Agricultural Machine-Building Plant (1)

Imeni Liebknecht, Sibsel'mash, Plant Imeni October Revolution, Molotor Plant imeni Kerov (3)

Dnepropetrovsk Plant imeni Voroshilov (5)

Lyubertsy Plant imeni Ukhtomskiy; Director, Mayat (6)

Gomsel'mash; Director, Bykov (6)

Uralsel'mash; Director, Sabel'nikov (6)

Plant Imeni Frunze (6)

Pervomaysk Agriculture Machine-Building Plant (6)

Imeni Kalinin (6)

Stalino Agricultural Machine-Building Plant Imeni October Revolution (9)

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Agricultural Machine-Building Plants Currently in Operation (Contd)

Rostsel'mash (9)

"Kommunar" (9)

L'vovsel'mash (9)

Tashsel'mash imeni K. E. Voroshilov (10)

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